# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 08/11/2017 11:40 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 07/17/2017 11:48 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017 (Expired)
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123960 | -1 | 1.58 | 123808 | 1.59 |
| Blue | F | SSC | 125000 | 123270 | -2 | 2.50 | 123691 | 2.27 |
| Blue | E | FITC | 23795 | 23099 | -3 | 2.59 | 1024 | 10.60 |
| Blue | D | PE | 29673 | 29088 | -2 | 2.15 | 1044 | 10.02 |
| Blue | B | PerCP-Cy5-5 | 48943 | 47950 | -3 | 3.47 | 1377 | 17.49 |
| Blue | A | PE-Cy7 | 44112 | 44086 | -1 | 5.24 | 679 | 37.50 |
| Red | C | APC | 54273 | 53012 | -3 | 2.73 | 3082 | 9.72 |
| Red | A | APC-Cy7 | 54945 | 53722 | -3 | 2.73 | 1109 | 11.31 |
| Violet | B | V450 | 15756 | 15025 | -5 | 4.35 | 720 | 9.08 |
| Violet | A | V500 | 62569 | 60981 | -3 | 4.12 | 2691 | 6.54 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19755 | 3.47 | 612 | -2 | N/A | N/A | Pass |
| Blue | F | SSC | 61054 | 1.68 | 547 | 1 | N/A | N/A | Pass |
| Blue | E | FITC | 115 | 40.90 | 550 | 0 | 0.0198 | 237 | Pass |
| Blue | D | PE | 229 | 30.17 | 547 | 1 | 0.1590 | 278 | Pass |
| Blue | B | PerCP-Cy5-5 | 215 | 46.67 | 639 | 0 | 0.0094 | 102 | Pass |
| Blue | A | PE-Cy7 | 74 | 124.43 | 697 | -2 | 0.0106 | 14 | Pass |
| Red | C | APC | 360 | 28.01 | 598 | -2 | 0.0187 | 30 | Pass |
| Red | A | APC-Cy7 | 122 | 42.77 | 578 | -6 | 0.0056 | 2071 | Pass |
| Violet | B | V450 | 87 | 41.27 | 470 | -2 | 0.0466 | 1766 | Pass |
| Violet | A | V500 | 198 | 22.91 | 498 | -1 | 0.0153 | 612 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.35 | -30.91 | 0.90 |
| Blue | 20.35 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.33 |
| Red | 16.98 | 13.27 - 19.91 | N/A | N/A | 31.11 | 31.45 | 1.18 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 10476

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments